INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/39129

		1 617 6863/3/12		
IPC(7) US CL	SSIFICATION OF SUBJECT MATTER : H03H 7/30, 7/40; H03K 5/159 : 375/229 International Patent Classification (IPC) or to both n	ational classification and IPC		
	DS SEARCHED			
	ocumentation searched (classification system followed 75/229, 230, 231, 232, 233 and 234; 708/322 and 32			
Documentation	on searched other than minimum documentation to the	e extent that such documents are included	in the fields searched	
	ata base consulted during the international search (nam feedforwad, summer adder combiner	e of data base and, where practicable, sea	urch terms used)	
	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	ppropriate, of the relevant passages	Relevant to claim No.	
<u>x</u>	US 4,649,505 A (ZINSER, Jr. et al) 10 March 198	7, see entire document	1, 12-15, 24 and 25	
<u>х</u> -	US 6,144,255 A (PATEL et al) 07 November 2000	, see fig. 20.	1, 12-15, 24 and 25 2-11, 16-23 and 26-35	
х ү			1, 12-15, 24 and 25 	
<u>х</u> ч	US 6,147,555 A (POSNER et al) 14 November 200	0, see fig. 20	1, 12-15, 24 and 25 	
Further	documents are listed in the continuation of Box C.	See patent family annex.	<u> </u>	
* S _I	pecial categories of cited documents:	"T" later document published after the inte		
	defining the general state of the art which is not considered to be	date and not in conflict with the appli principle or theory underlying the inv		
"E" earlier app	plication or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be conside when the document is taken alone		
	which may throw doubts on priority claim(s) or which is cited to he publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an inventive ste combined with one or more other suci	p when the document is	
"O" document	referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the		
priority da	published prior to the international filing date but later than the te claimed	"&" document member of the same patent	family	
Date of the ac	ate of the actual completion of the international search Date of mailing of the international search report			
5 March 2004 (25.03.2004) 21 APR 2004				
Mail Com P.O.	Authorized officer Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Authorized officer Jean B Corrielus Telephone No. 305-4700			
a colaboration (NO).	\			

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tegory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim N
Х	US 6,140,874 A (FRENCH et al) 31 October 2000, see fig. 20	1, 12-15, 24 and 2
Ā		2-11, 16-23 and 26
	US 5,850,162 A (DANIELSONS) 15 December 1998, see fig. 1.	1, 12-15, 24 and 2
 A		2-11, 16-23, 26-3
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